



Volume 28

An ARCEC Monthly Publication

March 2019

*Counterpoise Editor - Sue Robins AF6LJ*

## All About Repeaters

*By Sue Robins AF6LJ Pictures by Patrick Gooden K6PFG*

Our March presentation was by Chuck WD6APP who gave a good presentation on repeaters, and how they work. Chuck also brought in some examples of converted commercial gear that now do repeater and remote base service in the amateur bands.

Modifying commercial equipment is a time honored practice in amateur radio. Communications equipment of all kinds can be modified for amateur use. The 60's, though the, 80's, and even the nineties have seen a steady stream of retired / surplus business, and emergency radio gear that amateurs have exploited very well. Modifying this gear, and building the circuits necessary to have a functioning repeater or remote base station is where amateurs really shine. Look around, the "Can Do" attitude is alive and well in America, you can find it running strong in America's Ham Radio Operators. ....



### ARCEC Repeater Frequencies

2 Meter Repeater	220 MHZ Repeater	440 MHZ Repeater
TX 146.475	TX 222.480	TX 440.900
RX 147.420	RX 224.080	RX 445.900
Offset .945	Offset 1.6	Offset 5.00
PL 107.2	PL 107.2	PL 107.2



*As luck would have it I had scheduled this month to show my shack however things came up and I didn't have a chance to get this done, instead we have Pat WA6MHZ.*

## Pat's WA6MHZ Shack

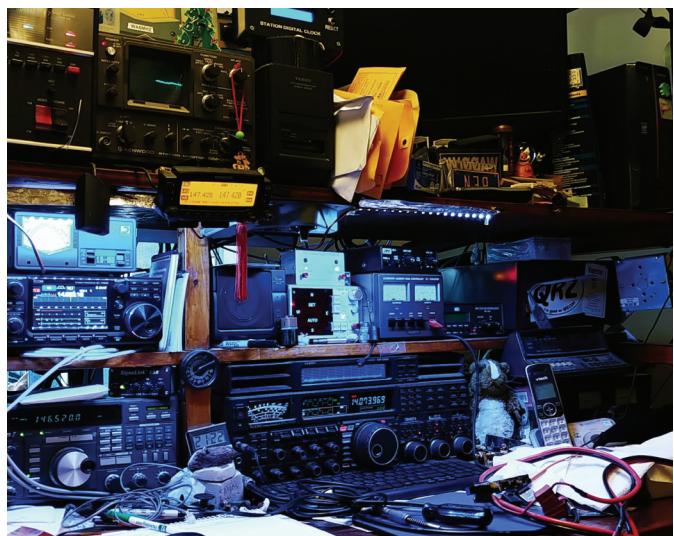
The WA6MHZ Radio Shack is designed for DX'ing. Actually there are 2 independent Radio Shacks at the big old house. One up stairs in the lab (CROWS NEST) and one down stairs in the Radio Room. Upstairs is a Icom IC-737A, MFJ Tuner, and Signalink for HF and a TYT DMR rig for VHF/UHF. Also an Kenwood HT. Modes upstairs are SSB and FT-8; and FM/DMR.

Downstairs is the Powerhouse station, with a Yaesu Ftdx-5000MP for the main rig and an Icom IC-7300 for a backup. KW is a Drake L7 and MFJ Autotuner. Then there is the world class VHF/UHF station featuring 2 Yaesu FT-736Rs for 6M thru 1296. Also a KW amp for 6M with a KW on 2 in the works.

Of course we need lotsa Antennas as seen. we have run out of roof space!

There is also the Club tower Trailer in my driveway and a 72ft tower that never got put up. Antennas for 160M thru 1296 MHZ.

Downstairs is the Crest Radio Museum with well over 1000 radios and upstairs is the Manual Library with 15,000 manuals. oh and 2 cats as well. As you can see, Ham Radio is NUMBER ONE in my life and been so since 1968!



## Next Month's Meeting

### All About DMR

The program will be given by Brian Slossen (KC2GNV). This promises to be a great presentation. There has been much interest in DMR of late, Hope to see you there, this should be a Great Show.

### WAMO Net Rebirth

Steve AJ6IT has brought the Wednesday WAMO Net back from its long hibernation. The WAMO Net is a controlled net for members, and non-members of the Amateur Radio Club of El Cajon. The net meets every Wednesday starting with early check-ins at 7:45 PM Pacific time. Come and join us for the WAMO net.

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### We have Three Board Positions Open

### ARCEC WANTS YOU!

### Club Shirts & Jackets

We have green, pocketed 2013 Field Day club shirts available in sizes S (2), M (1), and L (8) for \$10 each. Our standard Club Shirts have no pocket and are in sizes M (10), L (4), 2XL (7), 3XL (4), 4XL (5) for \$10 each. Sizes are limited to stock on hand.

Lined Windbreaker Jackets are also available in sizes L (1) and XL (7) for \$24 each. These have side pockets with snap closure.

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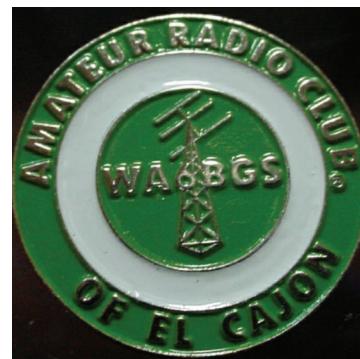
## Membership Badges & Pins

All members of the Amateur Radio Club of El Cajon who might wish to obtain a membership badge can contact Dell Awards and place an order with them. They are our current preferred source for these badges, and have our logo and design on file and ready to create a custom badge for members. Current price is \$7.50 per badge and they have indicated that there is normally a 3 business day turnaround time. These are quality badges made by a long established company, so place yours on order soon. They can be reached at the below address and phone number, and be sure to mention you saw this blurb in the Counterpoise newsletter too.

**Dell Awards**  
7949 Broadway  
Lemon Grove, CA 91945  
(619) 469-2100  
**Hours:** Mon-Fri 9:30am-5:30pm  
Sat 10am-1pm  
Sun - Closed

### Club Pins Now Available:

They have arrived! A limited number of club pins are now here and can be obtained from our Treasurer at most club functions. These are 1" diameter pins with a rubber clutch pin on rear. You can now show the world your support of the Amateur Radio Club of El Cajon, and for the small cost of \$3.00 each too. Get them while they are available.



# INTERNATIONAL STYLE ON-FOOT T-HUNT

## Saturday May 18<sup>th</sup>, 2019

Guajome Regional Park, Oceanside, CA 92057

Sponsored by the San Diego T-Hunt Group & CQ Magazine World Wide Fox Hunting Weekend

Starting times will be 10:30 AM to 1:30 PM at 5 minute intervals. If you start at 1:30 you will have until 3:00 to complete the course. **NO REGISTRATION FEES!** There will be 5 hidden T's using the MOE-MOI-MOS-MOH-MO5 format. You will be issued a "Punch card" and there will be orange & white flagging tape at each punch located close to the T's which will be concealed. Antennas will all be vertically polarized with approximately the same radiated power from each "T". For information on "International Style Transmitter Hunting" you may go to Joe Moell, k0ov's excellent website..... [www.homingin.com/#toc](http://www.homingin.com/#toc) . We will have limited equipment for loan for those that do not have small 2-M beams. Bring a connector to go from your HT antenna connector to a BNC cable ( Chinese HT's not recommended). There will be experienced Hams present to demonstrate techniques for those that want to learn about "On-Foot" Amateur Radio Direction Finding (ADRF) and a "Practice T" to experiment with before you start the course. You do not need a Ham Radio License to participate! You will be issued a map of the area with major features delineated. A compass, clipboard and pencil may be handy to plot bearings with. Dress appropriately and plan on taking water with you while hunting. There are several restrooms in the Park.

A BBQ is planned for about 2:00 PM for those interested. We will have burgers & hot dogs, buns, condiments, potato salad, drinks, chips & salsa. BBQ donations can be made on site. If you are staying for BBQ you might want to bring a folding chair. For information contact :

Joe Corones, N6SZO @ H-858.484.3582, C-858.603.5545, [jcorones@gmail.com](mailto:jcorones@gmail.com) OR... ....  
Joe Loughlin, KE6PHB @ H-619.461.7845, C-619.403.3149, [ke6phb@cox.net](mailto:ke6phb@cox.net)

Directions: From Interstate 5 in Oceanside take Hwy 76 east about 6 ½ miles to Guajome Lake Rd., turn right onto Guajome Lake Rd. and Park entrance will be first turn on your right. There is a \$3.00 day use parking charge. If you would like to walk into the Park you will have to pass the Park entrance and go about 300 yards further south for free street parking. We will be located by the restrooms on the right as you enter the Park. Look for signs/banner for T-Hunting. Coordinates are 33 14' 45.71" N, 117 16' 21.03" W.

**COME OUT AND EXPERIENCE A DIFFERENT ASPECT OF HAM RADIO**





The **AMATEUR RADIO CLUB OF EL CAJON<sup>Inc.</sup>**  
**WA6BGS**

Post Office Box Fifty, El Cajon California 92022

Founded 1960 ~ Incorporated 1976

Please fill out this form and then see options at bottom for submitting to the club

Date of application: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Amount Paid: \$ \_\_\_\_\_ Cash      Check      Check # \_\_\_\_\_

Membership Type: Individual (\$20/year)      Family\* (\$35/year)

Membership Status: New      Renewal      Returning Member

Call Sign      First Name \_\_\_\_\_ Last Name \_\_\_\_\_

If a previous member, what was your WAMO number?

ARRL Member: Yes      No

License Class: Technician      General      Extra      Other

Email Address (required) \_\_\_\_\_

Phone Number (optional) \_\_\_\_\_

\*Use another sheet of paper to add Family members and please include the following information:

First Name, Last Name, Call Sign (if any), License Class, Wamo Number (if any), & Email Address.

**Submitting this form:**

To submit this form, you can mail it to:

**Amateur Radio Club of El Cajon  
P.O. Box 50  
El Cajon, CA 92022**

-OR-

Bring it to the next club meeting on the second Thursday of each month. You can find the date and location by getting online at [www.wa6bgs.us](http://www.wa6bgs.us) which is the club website. Check it out for the most current information regarding the club.

Cash Payments - Get a receipt from the Club Treasurer. Please make all checks payable to AMATEUR RADIO CLUB of EL CAJON, Incorporated. Receipts for payments by check will be sent by email or regular mail by the Club Treasurer.

Members with an FCC Call Sign are full members with voting privileges. Members without an FCC Call Sign are Associate members without voting privileges.

**YOUR DUES ARE TAX DEDUCTIBLE:** Amateur Radio Club of El Cajon, Inc. Is a 501 C 7 Corporation. Donations are NOT tax deductible.

Email address and phone number are to allow club officers to contact members regarding club business and information of interest.